

## Claims

1. A polyvinylidene fluoride copolymer, wherein the ratio of the scattered-light intensity ( $I$ ) for a 15% solution of the polyvinylidene fluoride copolymer in dimethylformamide solvent to the scattered-light intensity ( $I_0$ ) for dimethylformamide, ( $I/I_0$ ), is 10 or lower.

2. A polyvinylidene fluoride copolymer as recited in claim 1, wherein the polyvinylidene fluoride copolymer is at least one selected from a copolymer of vinylidene fluoride and monofluoroethylene; a copolymer of vinylidene fluoride and trifluoroethylene; a copolymer of vinylidene fluoride and tetrafluoroethylene; a copolymer of vinylidene fluoride and hexafluoropropylene; a copolymer of vinylidene fluoride, trifluoroethylene and tetrafluoroethylene; a copolymer of vinylidene fluoride, trifluoroethylene and chlorotrifluoroethylene; a copolymer of vinylidene fluoride, trifluoroethylene and hexafluoropropylene; and a copolymer of vinylidene fluoride, tetrafluoroethylene and hexafluoropropylene.

3. A polyvinylidene fluoride copolymer as recited in claim 2, wherein said copolymer contains not less than 40 mol% and not more than 90 mol% of vinylidene fluoride.

4. A polyvinylidene fluoride copolymer solution comprising the polyvinylidene fluoride copolymer recited in any one of claims 1 to 3 and an organic solvent capable of

dissolving the copolymer.

5. A polyvinylidene fluoride copolymer solution recited in claim 4, wherein 100 to 10,000 parts by weight of the organic solvent is mixed with 100 parts by weight of the polyvinylidene fluoride copolymer.

6. A polyvinylidene fluoride copolymer solution recited in claim 4 or claim 5, wherein the organic solvent is diethyl carbonate.

7. A thin film comprising the polyvinylidene fluoride copolymer as recited in any one of claims 1 to 3.

8. A thin film comprising the polyvinylidene fluoride copolymer as recited in any one of claims 1 to 3, wherein the thin film is polarized.